BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Improvements to Roads in Muslim Colony in Jakkur Layout in ward No. 07, Byatarayanapura Kodigehalli Sub Division.

						Estimate Cost Rs.			1000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount	
1	KSRRB 300-1. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. No. 138 Item No. 19.2/ PWD SR 2014-15.									
	Disiliting Muslim Colony Jakkur Layout		1	18.00	7.00	0.10	12.60			
	2nd Main Road		1	18.00	7.00	0.10	12.60			
	3rd Main Road		1	18.00	7.00	0.10	12.60			
	Cross Road: 3rd cross		1	15.00	7.00	0.10	10.50			
	Basic Rate	98.00					**48.30**	105.84	**5112.00**	
	Area Weightage @ 8%	7.84								
	Total	**105.84**								
2	KSRRB 300-3. Earthwork excavation and foming in embankment by manual means in ordinary soil with initial lead upto 15 m. and lift of 1.5m. (When earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. (excluding watering and compaction of earth) (P 138, I.No. 19.3) SR-2014-15									
	Disiliting Muslim Colony Jakkur Layout		1	18.00	7.00	0.10	12.60			
	2nd Main Road		1	18.00	7.00	0.10	12.60			
	3rd Main Road		1	18.00	7.00	0.10	12.60			
	Cross Road: 3rd cross		1	15.00	7.00	0.10	10.50			
							48.30	97.20	**4694.76**	
	Basic Rate	90.00								
	Area Weightage @ 8%	7.20								
	Total	**97.20**								
3	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (P. 145, I.No. 19.64) SR-2014-15									
	1st Main Road Jakkur Layout	Sqm	1	18.00	7.0	1	18.00			
	2nd Main Road		1	18.00	7.0	1	18.00			
	3rd Main Road		1	18.00	7.0	1	18.00			
	Cross Road: 3rd cross		1	15.00	7.0	1	15.00			
							69.00	4.48	**309.00**	
	Basic Rate	4.15								
	Area Weightage @ 8%	0.33								
	Total	**4.48**								
4	KSRRB 300-64.2. Extra for watering the earth to bring the earth upto required optimum moisture content with mechinery including cost of all labour, HOM of machineries complete as per specifications. (P. 146, I.No. 19.72) SR-2014-15									
	1st Main Road Jakkur Layout	Cum	1	18.00	7.0	1	18.00			
	2nd Main Road		1	18.00	7.0	1	18.00			
	3rd Main Road		1	18.00	7.0	1	18.00			
	Cross Road: 3rd cross		1	15.00	7.0	1	15.00			
							69.00	2.16	**149.04**	
	Basic Rate	2.00								
	Area Weightage @ 8%	0.16								
	Total	**2.16**								
5	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of nominal mix 1:1:2 with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.(excluding cost of steel, fabrication & plastering) (p/ 13, I.No. 4.10) SR-2014-15									
	Disiliting 1st Main Road Jakkur Layout	Cum	1	18.00	7.00	0.15	18.90			
	2nd Main Road		1	18.00	7.00	0.15	18.90			
	3rd Main Road		1	18.00	7.00	0.15	18.90			
	Cross Road: 3rd cross		1	15.00	7.00	0.15	15.75			
							72.45	6283.44	**455235.00**	
	Basic Rate	5818.00								
	Area Weightage @ 8%	465.44								
	Total	**6283.44**								

6	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-341 kg/cum) (P. 18, I.No. 4.49.1) SR-2014-15								
	1st Main Road	CMTR	1	18.00	7.00	0.10	12.60		
	2nd Main Road		1	18.00	7.00	0.10	12.60		
	3rd Main Road		1	18.00	7.00	0.10	12.60		
	Cross Road: 3rd cross		1	15.00	7.00	0.10	10.50		
							48.30	5847.12	**282416.00**
	Basic Rate	5414.00							
	Area Weightage @ 8%	433.12							
	Total	**5847.12**							
7	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P. 171 I. No. 22.7) SR-2014-15								
	1st Main Road Jakkur Layout	Sqm	1	18.00			18.00		
	2nd Main Road		1	18.00			18.00		
	3rd Main Road		1	18.00			18.00		
	Cross Road: 3rd cross		1	15.00			15.00		
							69.00	97.20	**6706.80**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
8	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement(P. 172 I. No. 22.8.1) SR-2014-15								
	1st Main	Rmtr	15	4.50			67.50		
							67.50	124.20	**8384.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							
9	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P. 5, I.No. 2.3) SR-2014-15								
	C.D.1	Cum	2	5.00	1.80	0.90	16.20		
							16.20	176.04	**2852.00**
	Basic Rate	163.00							
	Area Weightage @ 8%	13.04							
	Total	**176.04**							
10	KSRB 4-1.2: Providing and laying in position plain cement concrete of I mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.2) SR-2014-15								
	C.D.1	Cum	2	5.00	1.80	0.90	16.20		
							16.20	5064.12	**82039.00**
	Basic Rate	4689.00							
	Area Weightage @ 8%	375.12							
	Total	**5064.12**							
11	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P. 23, I.No. 5.6) SR-2011-12								
	C.D.1	Cum	2x2	5.00	0.60	0.60	7.20		
							7.20	3836.16	**27620.00**
	Basic Rate	3552.00							
	Area Weightage @ 8%	284.16							
	Total	**3836.16**							
12	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P 15, I.No 4.28) SR-2014-15								
	C.D.1	Sqm	2	5.00	0.60		6.00		
	Side		2	6.00	0.23		2.76		
			2	1.80	0.23		0.83		
							9.59	236.52	**2268.00**
	Basic Rate	219.00							
	Area Weightage @ 8%	17.52							
	Total	**236.52**							

13	KProviding and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-320Kg/cum) (P. 18, I.No. 4.49.1) SR-2014-15								
	C.D.1	Cum	2	5.00	1.80	0.23	4.14		
							4.14	5847.12	**24207.00**
	Basic Rate	5414.00							
	Area Weightage @ 8%	433.12							
	Total	**5847.12**							
14	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (P. 19, I.No. 4.46) SR-2014-15								
	C.D.1	Ton	2	5.00	1.80	0.23	4.14		
							4.14		
	4.11x50Kg/Cum						**205.50**		
							0.20	78351.84	**15670.00**
	Basic Rate	72548.00							
	Area Weightage @ 8%	5803.84							
	Total	**78351.84**							
15	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.109.I.No. 15.3) SR-2014-15								
	C.D.1	Sqm	2	5.00		0.60	6.00		
							6.00	91.80	**551.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
16	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)								
		Cum		Qty. Vide Item No. 1			**139.68**		
				Qty. Vide Item No. 5			**730.20**		
							869.88	81.00	**70460.00**
	Basic Ratefor haulage of materials as per item	12.80							
	Average weight of earth 1.28 tonne/Kg for	62.20							
	Add loading and unloading vide item No. 17.1	**75.00**							
	Area Weightage @ 8%	6.00							
	Total	**81.00**							
	Sub total								**988673.60**
17	Third party inspection charges 1%								**9886.74**
18	Miscesallaneous Charges	L/S							**1439.66**
								Total	**1000000.00**

(Rupees Ten Lakhs Only)

Administrative approval for Rs Ten Lakhs only
Is according under head P-1771
Registered as EE No: 10 Subject to conditions contained enclosed memo No: 37 Dt. 29/10/14

AE/JE

EE (3rd Div)

CERTIFICATE:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per PWD SR of 2014-15.
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under B.B.M.P. limits.

Junior Engineer

D. K Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Technical Sanction for Rs..... Ten lakhs only

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

P-1771

Registered as EE No: 23 Dated 29/10/14 Subject to conditions contained enclosed memo.
No: 111 / Dt. 29/10/14

EE